MARSHALL STAR

Serving the Marshall Space Flight Center Community **March 11, 2004**

'We hear you,' says Safety and Mission Success team lead at Marshall

by Dr. Jan Davis

After reading the Columbia Accident Investigation Board report during Safety and Mission Success Week in November, comments and feedback were solicited from Marshall Center team members on how to improve the way NASA and this Center does business.

Each of the more than 1,700 submittals is now available to all Marshall team members for review. The data can be found at the "Access to Organizational Data" link on the SMS Web site, or at http://inside.msfc.nasa.gov/CAIB/documents/MSFCFeedback-Total.xls. The items are sorted in alphabetical order by directorate-office mail codes.

As director of Marshall's Safety and Mission Assurance Office, I'm leading a team that has reviewed each comment specific to the Center. I want to assure the Marshall team, civil service and contractor, that each of the more than 1,000 anonymous comments is being tracked to a conclusion.

Photo by Emmett Given, Marshall Center

Acknowledging Main Engine milestone

Mike Rudolphi, manager of the Marshall Center's Space Shuttle Project Office, reads a congratulatory note to Center team members during ceremonies marking the one-millionth second of successful flight and test firing of the Space Shuttle Main Engine. U.S. Sen. Richard Shelby, U.S. Sen. Jeff Sessions, U.S. Rep. Bud Cramer, Alabama Gov. Bob Riley and members of the state House of Representatives all sent congratulations to the Marshall team for achieving the milestone.

We have heard you. And we're going to do something about it. We are working very hard to look at every single comment that has been submitted and to determine what action is required to fit

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Payload Operations Center to mark third anniversary

On March 19, the Payload Operations Center at the Marshall Center will mark its third anniversary of round-the-clock operations in support of science aboard the International Space Station.

Staffed 24 hours a day by three shifts of flight controllers, this science command and control center links Earth-bound researchers with their experiments – or payloads — in orbit. These controllers serve as extra sets of eyes or pairs of hands devoted to science, thus increasing experiment efficiency and saving precious crew time for operations that require a human touch.

Students get a 'HUNCH' about ISS crew training

By Lori Johnston

How can high school students build equipment similar to hardware used on the International Space Station? Some students have a "hunch" – thanks to a program called High School Students United with NASA to Create Hardware, or HUNCH.

HUNCH students from the Huntsville Center for Technology, and Brewer High School in Somerville, Ala., will build 30 custom-designed, multi-use payload, or cargo stowage lockers. The Space Station crew and ground support personnel will use the lockers to practice conducting

*See **Students** on page 3*

X-rays from Saturn

Chandra image presents puzzle for scientists

From the Smithsonian's Astrophysical Center

The first clear detection of X-rays from the giant, gaseous planet Saturn has been made with NASA's Chandra X-ray Observatory.

Chandra's image shows that the X-rays are concentrated near Saturn's equator — a surprising result since Jupiter's X-ray emission is mainly concentrated near the poles. Existing theories cannot easily explain the intensity or distribution of Saturn's X-rays.

Chandra observed Saturn for about 20

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Safety

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them into our processes. And I believe you will see positive changes at Marshall as a result.

Our team is developing a "Corrective Action Plan" based on your comments. Regular updates on the status of your comments and the Corrective Action Plan will be given to you.

Last week, I presented an Implementation and Tracking Process to Marshall's senior staff members. This process calls for each of your comments to be placed into categories, including but not limited to, "Leadership and Decision Making," "Policy," "Communication," and "Organization."

For each category we will assign a "champion" to report directly to Marshall Center Director David King. Each champion will organize a team to analyze comments in their category to come up with an action plan to address those comments. At a multi-day retreat, the Center's senior managers will take these individual action plans and form an implementation plan for the Center.

Let's say I'm the "champion" for the team on Safety. I will meet with Marshall team members from across the Center to look at the comments, make suggestive actions, and come up with a plan to implement those actions. This plan will be discussed at the retreat for the Center Director's direct reports and implemented. Then we will communicate to you on how we think changes can be accomplished.

Davis

Let me emphasize that communication is essential. This is a "Marshall Team" effort. We want to make sure everyone is a part of this process. Every step of the process will be communicated to you.

I invite all Marshall team members to continue to review the Columbia Accident Investigation Board report, as well as the CAIB Agency-wide Action Team, or "Diaz Report," recommendations issued in February. I want you to continue to make observations, continue to ask questions and continue to offer solutions.

We have important work ahead of us. It also is exciting work, and it is a privilege that the American people have given us. The President has offered us a new vision for space exploration. First, we must solve those challenges offered to us in the CAIB and Diaz reports. Every one of you at the Marshall Center will help to guide NASA to achieve these goals and help to inspire the next generation of explorers who will pick up the mantle and take us even farther.

The writer is the director of the Marshall Center's Safety and Mission Assurance Office.

Safety and Mission Success activities at a glance

- Safety and Mission Success Points of Contact will evaluate and categorize comments.
- Management team will evaluate categories and assign a "champion" for each category, who will report to the Center Director.
- Each champion will organize a team to analyze the category and come up with an "action plan."
- Each team's action plan will be presented to senior staff.
- Senior staff will form an implementation plan for a Marshall Center response to civil service and contractor team members' Safety and Mission Success comments.
- Every step of the process will be communicated to Marshall team members.

Space Shuttle processing and payloads status report to be issued weekly

NASA Headquarters release

The Space Shuttle fleet is housed and processed at NASA's Kennedy Space Center in Florida. Every week, NASA will issue the latest information about Space Shuttle processing and payloads in a status report.

The order of the Space Shuttles in this report does not necessarily reflect the chronological order of future Space Shuttle missions. Previous reports are archived on the Internet at: http://www-pao.ksc.nasa.gov/kscpao/status/status.htm.

Return to Flight preparations continue on orbiter Discovery in the processing facility at Kennedy. Following the decision by NASA management to remove and X-ray the Rudder Speed Brake actuator gears, the four actuators were removed from the vehicle and sent to the NASA Shuttle Logistics Depot in Cape Canaveral, Fla., for X-ray beginning this week. The X-ray will determine if the gears were installed correctly.

The Body Flap actuators are installed and a fit check was last Thursday. The Body Flap re-installation was scheduled for Friday. Build-up of Reinforced Carbon-Carbon (RCC) panels and associated fittings is ongoing. The first RCC panels are to be hung this week.

Processing of Atlantis continues in preparation for its future mission. Installation of the C-shaped T-seals that fit between each RCC panel is beginning on the left-hand wing leading edge. Right-hand RCC spar fittings are being installed, with the first panels being placed on the vehicle starting this week.

Remote Manipulator System hi-potential voltage tests are ongoing. Installation of window No. 2 is scheduled for this week.

Space Shuttle Endeavour is in its Orbiter Major Modification period, which began in December 2003. Thermal Protection

*See **Shuttle Status** on page 6*

John Chapman named chief engineer of Marshall's Space Transportation Directorate

By Sheri Bechtel

John S. Chapman has been named chief engineer of the Space Transportation Directorate at the Marshall Center. The directorate is responsible for the development of advanced space transportation, launch vehicle systems and propulsion systems, including Earth-to-orbit and in-space propulsion technologies, and provides propulsion and engineering expertise to NASA's Space Shuttle program.

In assuming this new position, Chapman also has been designated to the federal government's Senior Executive Service — the personnel system that covers most of the top managerial, supervisory and policy positions in the executive branch.

Chapman will be responsible for all engineering and technical aspects of the directorate's activities, including new propulsion and vehicle systems, propulsion research and vehicle systems analysis and design. He also will be responsible for tracking the technical performance of the directorate's project activities, including system reliability and system component design and construction.

"I am excited to be working the technical aspects of current and future space transportation and propulsion systems," Chapman said. "The technologies NASA is researching and developing within the Space Transportation Directorate are the future of space exploration, and could enable us to travel faster and farther throughout our Solar System — and beyond it."

Chapman

Chapman joined the NASA team in 1980 as an associate engineer responsible for writing computer programs to analyze Solid Rocket Booster hardware. He has held several management positions, including chief engineer for the Booster and deputy project manager for all three Shuttle solid propulsion projects — the Booster, the Reusable Solid Rocket Motor and the Advanced Solid Rocket Motor. Chapman also has served as deputy project manager for the Shuttle External Tank Project and business manager for each of the four Marshall Center Shuttle projects. He has served as technical assistant to the director of the Space Transportation Directorate since October 2001.

Prior to joining NASA, Chapman spent almost seven years in private industry. Working first for Northrop Services and then for D.P. Associates, both of Huntsville, Chapman performed engineering studies on the early development phases of the Space Shuttle, including providing technical and project software for the Solid Rocket Booster Project.

In 1979, he joined Teledyne Brown Engineering in Huntsville, where he worked in the defense industry field-testing laser-based missile guidance systems for the U.S. Army.

Chapman, who grew up in Spartanburg, S.C., earned a bachelor's degree in industrial engineering in 1973 from the Georgia Institute of Technology in Atlanta. He has participated in various executive-level training courses, including Harvard University's "Promoting Innovation and Organizational Change."

Chapman is the co-author of three technical publications. He also has received numerous NASA honors and awards, including the NASA Exceptional Service Medal in 1988 for his work as business manager of the Space Shuttle Main Engine Project.

The writer, employed by ASRI, supports the Media Relations Department.

Students

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science in space.

"This shows that high school students are capable of handling real life projects," said A.J. Santos, a Brewer High School student.

Bob Zeek, co-founder of HUNCH, recently gave students a tour of some Marshall Center facilities.

"The students will meet with NASA engineers, view current training hardware, and build hardware that meets a real need in NASA's Space Station payload training program," said Zeek, a Marshall Center simulation engineer from Teledyne Brown Engineering in Huntsville.

To understand how their work fits in with the Space Station, students visited the Payload Operations Center, met the people who will train with the student-built lockers, and toured the machine shop where actual Space Station hardware is produced. They also met their co-workers on the project, students from Clear Creek High School in Houston, via a video conference with the Johnson Space Center.

The writer, employed by ASRI, supports the Media Relations Department.

Doug Stoffer, NASA/Marshall Center

High school students from the Huntsville Center for Technology, visiting the Marshall Center's Manufacturing Area, examine a piece of Space Station training hardware they helped design.

Marshall CaER Director Tereasa Washington to be recognized as role model by Girls Incorporated

by Sanda Martel

Girls Incorporated, a national nonprofit youth organization, will present its annual "She Knows Where She's Going" award to Tereasa H. Washington, director of the Customer and Employee Relations Directorate at the Marshall Center, for being a positive role model for girls.

Each year the group recognizes three outstanding women of achievement in the community whose lives serve as an inspiration for girls to become confident, self-sufficient and successful. Washington will receive the award March 18 at the Girls Incorporated annual awards banquet at the Marriott-Huntsville.

Girls Incorporated of Huntsville - formerly known as Girls Clubs of America - is a national nonprofit youth organization dedicated to inspiring girls to be strong, smart and bold, said Stephanie Malone, executive director. For more than 50 years the organization has provided educational programs to millions of American girls, particularly those in high-risk, underserved areas. Today, many innovative programs help girls confront subtle societal messages about their value and potential, and prepare them to lead successful, independent and fulfilling lives, Malone said.

This year a new program, "Galaxy Girls," will be launched to promote science education, and will include hands-on activities such as building a telescope, planning a trip to distant planets, designing and creating a space suit, rocket building and solving engineering problems associated with returning delicate cargo back to Earth in a spaceship.

Washington

Washington is to be cited for overcoming personal obstacles early in life, when she and her siblings were among the first African-Americans to integrate an all-white school in Tuscumbia, Ala., in the 1960s. She persevered in a sometimes-hostile societal environment, earned straight A's, and was awarded full scholarships to Alabama A&M University in Huntsville, and Vanderbilt University School of Law in Nashville, Tenn. She received a bachelor's degree in economics from Alabama A&M in 1978, and in 1982, was awarded a doctorate of jurisprudence from Vanderbilt.

After receiving her law degree, Washington joined the Marshall Center's Office of Chief Counsel in 1982. In 1983, she was appointed general attorney-advisor, handling legal matters for Marshall's administration and technical operations. In 1988, she became associate chief counsel for issues related to personnel and labor relations and was appointed Marshall Center's associate deputy chief counsel in 1992.

She was the first African-American lawyer to serve on Marshall's legal staff, the first African-American lawyer in a NASA field center, and the first African-American woman at Marshall appointed to the senior executive service.

Washington was named director of the Marshall Center's Customer and Employee Relations Directorate in 1998. She manages an organization of more than 250 civil service and contractor employees and oversees a wide range of programs — including human resources, internal relations and communications, media relations, government and community relations, employee and organizational development, educational programs and technology transfer - the development of space technology for commercial use.

She has received numerous awards during her Marshall career, including the 2002 Presidential Rank Distinguished Executive Award - the highest honor attainable for a civil servant.

The writer, an employee of ASRI, supports the Media Relations Department.

Griner to speak at Women's History Month program Tuesday at Marshall

from the Equal Opportunity Office

Carolyn Griner will speak at a program commemorating Women's History Month at the Marshall Center on Tuesday.

The event is from 8:30-10 a.m. in Bldg. 4200, Room P-110. This year's theme is "Women – Inspiring Hope and Possibility."

Griner, principal at Booz Allen Hamilton, a management and technology consulting company based in McLean, Va., is a former deputy director of the Marshall Center and retired in 2001 after 36 years with NASA. During her NASA career she received numerous honors, including the NASA Distinguished Service Medal, NASA Leadership Medal and the NASA Exceptional Service Medal.

Women's History Month began in 1978, when a small group in Sonoma County, Calif., decided to honor women's history and contributions with International Women's Day. In 1979, a member from this group was invited to participate in a program called the "Women in History Institute" at Sarah Lawrence College in Bronxville, N.Y.

The first Joint Congressional Resolution declaring a "National Women's History Week" came in 1981. In 1987, the National Women's History Project successfully petitioned Congress to expand the national celebration to the entire month of March. Each year, programs and activities in schools, workplaces, and communities have become more extensive as information and program ideas have been developed and shared.

For more information on Marshall's Women's History Month celebration, call Billie Swinford at 544-0087.

Alabama teachers, students have chance to be NASA 'Stars'

By Grant Thompson

Not so long ago, several fourth graders from Madison County Elementary School in Gurley, Ala., took a three-day break from multiplication tables and American history for a one-of-a-kind field trip — one that took them out of this world.

"I was Commander on the Space Shuttle and learned what it takes to fly around the Earth," said one student, whose bedroom walls are covered with posters of rockets and Space Shuttles.

"I worked in Mission Control and helped with weather forecasts and the Shuttle landing," said another.

Is NASA recruiting elementary school children to join the Astronaut Corps? Not exactly. Last fall, these students and some of their classmates participated in "NASA Stars," an educational program designed to promote changes in how math, science and technology are taught in Alabama classrooms. The program is managed by the Education Programs Department at the Marshall Center.

Photo by Doug Stoffer, NASA/Marshall Center

Logan Elizabeth Miller, seated, Dantrail Quatez Pincheon, left, and Kenneth Anthony Johnson work on a presentation about space exploration in their fourth-grade class at Madison County Elementary School in Gurley. The students recently participated in a three-day NASA Stars program.

Founded in 2002, the NASA Stars program supports Alabama's "high needs" schools, as determined by the Continuing Education Department at the University of Alabama in Huntsville. These schools, which also have to be designated Title 1 schools, are selected by administrators in targeted school districts whose teachers have been accepted to the Space Academy for Educators, a professional development program for Alabama teachers funded through the Alabama Department of Education and the Alabama Commission on Higher Education.

To qualify as a Title 1 school, the U.S. Department of Education determines the percentage of a school's students living under the national poverty level, based on U.S. Census data. Each state receives federal funding based on this formula, and then distributes funds to districts based on the numbers of students participating in free- or reduced-price lunch programs.

"So many children have the ability to learn math and science, but they just don't have the resources," said Tammy Rowan, an education specialist at the Marshall Center. "Our goal is to provide teachers and students with an opportunity to participate in hands-on experiences in space science, making subjects like math, science and technology more relevant in their lives."

Each year, NASA provides resources for the subsequent two-year period for approximately 700 Title 1 students in grades four through six and their teachers. The program typically enables two classes from each designated school to attend a single three-day session at U.S. Space Camp in Huntsville.

"NASA Stars turned our students on to what they can do with math and science in the real world," said Davina Mann, a fourth-grade teacher from Madison County Elementary, whose students participated in the program. "Once they recognized their potential and were able to get their hands on the right learning tools, they realized their ability to succeed has no limits."

In the summer of 2003, 18 teachers from Alabama schools attended the five-day Space Academy program in Huntsville. The same teachers returned for another training program in the fall, prior to the start of the school year. Last September, those teachers returned to Space Camp with their students for the three-day space experience.

Thanks to an educational grant from the Pitsco-LEGO group, those same teachers will return to Space Camp this summer to learn how to use robotics software and supplies, and to teach students how robots work.

Based in Pittsburg, Kan., Pitsco-LEGO is a joint effort by Pitsco Inc., an education resource company, and LEGO, the worldwide toy manufacturer, to help promote hands-on classroom activities for teachers across the country.

In the fall of 2004, the same teachers will bring a new group of students from their school to Space Camp for another three-day program.

Student participants are already starting to connect what they're learning in the classroom with what they did at Space Camp, according to their teachers and the students.

"We've been studying electricity, and they taught us how important that is when the Shuttle is flying," said one student. "That was pretty cool. Now I really want to be an astronaut when I grow up."

For more information about this and other NASA Education programs, go to www.education.nasa.gov.

The writer, an employee of ASRI, supports the Media Relations Department.

Shuttle Status

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System blankets are being removed to support removal and inspection of the Rudder Speed Brake actuators. RCC panels continue to be removed from the vehicle and returned to the vendor for inspection.

For more information about NASA's Return to Flight efforts, go to http://www.nasa.gov/news/highlights/returntoflight.html.

Saturn

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hours in April of 2003. The spectrum, or distribution with energy of the X-rays, was found to be very similar to that of X-rays from the Sun.

"This indicates that Saturn's X-ray emission is due to the scattering of solar X-rays by Saturn's atmosphere," said Jan-Uwe Ness, of the University of Hamburg in Germany and lead author of a paper discussing the Saturn results in an upcoming issue of "Astronomy & Astrophysics." "It's a puzzle, since the intensity of Saturn's X-rays requires that Saturn reflects X-rays 50 times more efficiently than the Moon."

The observed 90 megawatts of X-ray power from Saturn's equatorial region is roughly consistent with previous observations of the X-radiation from Jupiter's equatorial region. This suggests that both giant, gaseous planets reflect solar X-rays at unexpectedly high rates. Further observations of Jupiter will be needed to test this possibility.

The weak X-radiation from Saturn's south-polar region presents another puzzle (the north polar region was blocked by Saturn's rings during this observation). Saturn's magnetic field, like that of Jupiter, is strongest near the poles. X-radiation from Jupiter is brightest at the poles because of auroral activity due to the enhanced interaction of high-energy particles from the Sun with its magnetic field. Since spectacular ultraviolet polar auroras have been observed to occur on Saturn, Ness and colleagues expected that Saturn's south pole might be bright in X-rays. It is not clear whether the auroral mechanism does not produce X-rays on Saturn, or for some reason concentrates the X-rays at the North Pole.

"Another interesting result of the observation is that Saturn's rings were not detected in X-rays," noted Scott Wolk of the Harvard-Smithsonian Center for Astrophysics in Cambridge, MA, a co-author of the paper. "This requires Saturn's rings to be less efficient at scattering X-rays than the planet itself."

The same team detected X-radiation from Saturn using the European Space Agency's XMM-Newton Observatory. Although these observations could not locate the X-rays on Saturn's disk, the intensity of the observed X-rays was very similar to what was found with Chandra and consistent with a marginal detection of X-rays from Saturn reported in 2000 using the German Roentgensatellite (ROSAT).

The research team, which used Chandra's ACIS instrument to observed Saturn, also included J. Schmitt of the University of Hamburg, as well as Konrad Dennerl and Vadim Burwitz of the Max Planck Institute in Garching, Germany.

The Marshall Center NASA's Marshall manages the Chandra program for NASA's Office of Space Science in Washington. Northrop Grumman of Redondo Beach, Calif., formerly TRW, Inc., was the prime development contractor for the observatory. The Smithsonian Astrophysical Observatory controls science and flight operations from the Chandra X-ray Center in Cambridge, Mass.

Photo by David Higginbotham, NASA/Marshall Center

Thanking the Marshall Team's CFC giving

Carolyn McMillan, center, of Marshall's Technology Transfer Department, accepts a Director's Commendation on Monday for serving as chairperson of the 2003 Combined Federal Campaign at the Center. Presenting the award are Marshall Deputy Director Rex Geveden, left, and Customer and Employee Relations Directorate Director Tereasa Washington. More than $595,000, a new Marshall record, was pledged to help community agencies and charities in the Huntsville area. Members of the Marshall Center's CFC Executive Committee also were honored with Director's Commendations. Awards were presented to organizational campaign leads as well as certificates presented to individuals who helped the campaign. For outstanding participation, 36 Marshall organizations received Gold Certificate awards and 34 organizations received Sliver Certificate awards.

Obituaries

George Harrison Wade, 82, of Huntsville, died Feb. 3. Services were to be announced at a later date with Laughlin-Service Funeral Home directing.

Wade was born Oct. 6, 1921. He was a U.S. Navy veteran of World War II and graduated from Dartmouth University in 1946. He retired from the Marshall Center in 1974, where he was an AST in Experimental Facilities and Equipment. He was the widower of Thadis Estelle Speight Wade.

He is survived by four sons, Tommy Hobbs, George D. Wade and John Keith Wade, all of Huntsville, and Don Hobbs of Courtland, Va.; seven grandchildren; and two great-grandchildren.

Announcements

Contractor open forum set for March 18 at Marshall

A contractor's open forum will be from 9-11:30 a.m. March 18 in Morris Auditorium to solicit questions and opinions from firms and individuals concerning NASA's procurement policies, practices and initiatives. Tom Luedtke, NASA's associate administrator for procurement, will speak. For registration details, call Valerie Holmes at 544-0314 before Tuesday.

NASA Fellowship Program applications available

The NASA Administrator's Fellowship Program is accepting applications through March 19. The program is designed to enhance relations between NASA and historically black colleges and other minority institutions. NASA employees at the GS-13 level or above are encouraged to apply and must hold a master's or doctorate degree. The 18-22 month program allows NASA employees to teach or conduct research at a minority institution for one year and participate in other opportunities for the remainder of the fellowship. For details, call 544-3740.

Engineering Summer Camp for high school students set at UAH

The University of Alabama in Huntsville will host its third annual Engineering Summer Camp for incoming high school seniors and juniors to explore different fields of engineering using lab experiments and group projects. Some of the projects include bridge building, rocket launches, robotics, circuits and sensors, and chemical reactions. Camp dates are June 14-18 and July 12-16. Cost is $350. Applications are available at www.eb.uah.edu/camp or call (256) 824-3590.

'Take Our Children to Work Day' set for April 22

The annual "Take Our Children to Work Day" at the Marshall Center for children in grades 3-12 will be April 22. Since 1994, the event has been an opportunity for the Marshall team to promote education and awareness of the space program. See "Inside Marshall" for a Web link detailing registration, workshops, tours and other information, or go to http://inside.msfc.nasa.gov/CHILDREN/.

AIAA Engineering scholarship applications available

The Alabama-Mississippi Section of the American Institute of Aeronautics and Astronautics is accepting applications for its Third Annual Engineering Scholarship Program. The program is open to high school seniors entering an accredited university to pursue an engineering or science degree that will lead to an aeronautics or astronautics career. Eligible seniors can find the application at http://www.aata.net/scholarships/index.htm. Deadline for application acceptance is Monday. For more information, call Kevin Connell at the Aerospace Development Center in Jacksonville at (256) 782-5972.

MARS Tennis Club seeking members

The MARS Tennis Club is seeking members for the 2004 season. Civil servants, retirees and on-site contractors are eligible for membership, which includes use of four lighted tennis courts, participation in tournaments and other club activities. For details, call Amy Hemken at 544-7097.

Retired federal employees to meet Saturday

The National Association of Retired Federal Employees will meet at 9:30 a.m. Saturday at the Senior Center on Drake Avenue in Huntsville. For details, call 881-4944 or 882-2406.

MARS Soccer Club seeking team members for 2004 season

The MARS Soccer Club is seeking team members for the 2004 season. Participation is open to civil servants and on-site contractors. For details, call Andy Heaton at 544-3839.

Shuttle Buddies to meet March 22

The Shuttle Buddies will meet at 9 a.m. March 22 at Mullins Restaurant on Andrew Jackson Way in Huntsville. For information, call Deemer Self at 881-7757.

Marshall annual Egg Hunt set for April 10

The Marshall Center's annual Egg Hunt will be at 10 a.m. April 10 in the Picnic Area. All Center team members are invited to bring their children ages 12 and under to participate. In case of inclement weather, activities will be held in Bldg. 4316. For details, call 544-3563 or 544-1382.

SHE Committee elects Ogozalek, Robbins to safety posts

NanceJo Ogozalek of ED33 was elected to her second term as chairperson of the Marshall Center's Safety, Health and Environmental Committee in recent voting. Phil Robbins of CSC was elected deputy chair. For details on SHE activities, training, safety alerts and other information, go to the Web link on "Inside Marshall."

Ogozalek

Robbins

Job Announcements

MS04C0093, Supv. Human Resources Specialist (Human Res. Dvmt). GS-0201-15, Customer and Employee Relations Directorate, Employee and Organizational Development Department. Closes March 12. Contact: Edwina Bressette at 544-8115.

Classified Ads

Miscellaneous

★ Hofner bass guitar. No. 85 of 100 handmade in Germany. W/flight case. $1,500. 256-306-0700 Decatur
★ Apex color television, 27", cable ready, $100. 256-864-2517
★ Wedding gown w/train and veil, size 6, $150. 881-8674
★ Entertainment center, glass doors, holds stereo, make offer. 880-6498
★ U-shaped computer desk w/hutch, $100. 679-5780
★ Computer monitor, 17" CRT, Princeton graphics, Ultra 17, $50. 355-6648
★ Booster seat for 4-6 yr. old, w/drink holder, toy caddy, $15. 890-0755
★ Compac PC, 400MHz, 10GB, Win98, monitor, printer, scanner, joy stick, Word, educational software, $200. 971-1414
★ Broyhill living room set: sofa, loveseat, single chair; bedroom set: Queen-size bed, dresser, desk. 348-4889
★ Two cream swivel rockers, ottoman, $80; ruby/diamond rings, tri-color bracelet. 776-9165
★ Camouflaged John boat, 14' flat bottom w/ trailer, 15HP Johnson motor, gas tank, $500 firm. 256-652-0811
★ Older GE washer & Kenmore dryer, white, mechanically sound, $150 set. 256-864-2216 after 5 p.m.
★ Matching sofa & loveseat, beige & green, $500; black metal desk w/chair, $50. 883-5168
★ 1977 Avion travel trailer, 27', for hunting, camping, or lake lot, $4,500. 931-427-2059
★ Lead shot for reloading, 40 lbs., $25. 325-6000
★ Fireplace doors, glass w/brass frame, fits 36"-42" opening, $40. 534-2025
★ Zenith color TV, 27", $100; exercise machine, 4-months old, $5. 837-1774
★ Garmin GPS 12, for hunting & fishing, $60. 350-3226
★ Kenmore stackable washer/dryer, $450. 774-3554
★ Ornamental pond fish, 2" to 8" multi-colored or gold, $0.25/inch. 828-6213
★ 1994 Coachman slide-in-truck camper, AC/ heat, refrigerator, stove, bath, $4,000. 776-2687
★ ComposTumbler, revolving drum composer, make your own compost, $125. 256-837-3158
★ Kenmore sewing machine w/cabinet, $75; Black Amethyst vases, metal ammo boxes, various sizes, $8. 256-830-0993
★ Whirlpool over-the-range microwave, black, w/mounting hardware, 6 yrs. old, $85. 880-6146
★ Traditional couch, 96" long, ivory w/mauve/ teal stripes, $200. 881-4105
★ Living room set, sofa, love seat, chair, coffee table, $450. 256-430-0450
★ X10 wireless video sender/receiver, 2.4GHz, $30; X10 RF universal remote, $10. 765-532-4218
★ Sprint PCS Samsung phone, clamshell, color screen w/accessories, $35. 658-5855
★ Used 22" Weber grill, new grill top, $45; propane tanks, used, $5, new, $20. 533-0777
★ Maxtor 540 meg hard drive, $10. 721-0617
★ Cannondale R300 52cm CAAD3, 24 gears, TIAGRA components, MAVIC alum. rims. $745. 534-3252.
★ Sliding compound miter saw, 8-1/2", Tradesman Pro Model 8336,$175 firm. 216-8868

Vehicle

★ 1994 Nissan Altima, 4-door, sunroof, pw/ pdl, auto, a/c, $2,200. 256-498-5911 lv. msg.
★ 1993 Explorer XLT, all-power, new air compressor, blower, brakes, new tires, $1,900. 256-772-0430
★ 2001 Dodge Ram 1500 Sport, V8, quad-cab, 4x4, automatic, a/c, power, towing pkg., $16,000. 859-0729
★ 1991 Explorer XLT, 4-door, leather, sunroof, 64K miles, $3,000+ in new parts, $3,800. 880-6498
★ 1995 Taurus GL, power driver's seat/ windows/mirrors, 3.0L/V6, 173K miles, rebuilt transmission, $1,950. 256-233-5403
★ 2000 Mercury Villager minivan, 79K miles, new tires, CD, well-maintained, $8,000. 256-797-7251
★ 2002 Ford F250 XLT Super-duty, 4x4, crew cab, CD, winch, 35K miles, $28,000. 931-937-8876
★ 2002 Toyota Sienna LE, 41K miles, TV/ VCR, auto, 1-owner, all maintenance by dealer, $23,500. 426-8700
★ 2002 Honda Shadow Spirit 1100 w/extras, $5,200. 509-7759
★ 2000 Honda 4-wheeler, ATV Fourtrax TRX90-cc, 12-15 year olds, 4-speed automatic clutch, $1,750. 882-0461
★ 1989 Honda CR250R dirtbike, $1,000; 1996 Honda XR100 dirtbike; $1,200. 655-6293
★ 1998 Harley-Davidson Wide Glide, black, windshield, bags, extra seat, $14,400. 882-2654
★ 1997 Dodge Grand Caravan, 96K miles, deluxe a/c system, trailer hitch, other extras, $5,975. 256-881-5034
★ 1987 Dodge B150 van, 8-cylinder, 96K miles, $1,800. 256-586-8483
★ 1996 Dodge Intrepid ES, all-power, all-terrain, auto climate, Infinity cd/cassette, leather, 92K miles, $4,500. 683-3745
★ 2000 Ford Expedition, low miles, loaded. 233-6197
★ 1988 Isuzu Trooper II LX, two-tone gray/ navy, 4WD/auto, 145K miles, $1,500. 784-9337
★ 1985 Corvette coupe, 86K original miles, $7,500. 830-0305
★ 1995 Ford Windstar GL van, one-owner, $2,450. 256-722-0997
★ 1994 Chevy Conversion van, 8-cyl., TV/ VCR, rear a/c, power rear seat/bed, 96K miles, $8,750. 534-2368
★ 2000 Nissan Frontier, crew-cab, 79K miles, yellow. 895-6916
★ 1998 Toyota 4-Runner, white, 4-cyl., automatic, one-owner, 82K miles, $11,000. 256-682-0260
★ 2000 Chevy Tahoe Limited, black, 78K miles, tow package, cd, must sell, $16,500. 837-2162
★ 1994 Cadillac, white, garaged, 114K miles, $5,950. 864-0155
★ 1989 Plymouth Grand Voyager SE, 130K miles, good body, interior, transmission, & tires, $750. 883-9875
★ 2001 Honda Accord EX, 2-door, V6, 52K miles, leather, sunroof, cd changer, $15,995. 256-430-9585
★ 1993 Explorer XLT, plum, all-power, new air/blower, brakes, new tires, 151K miles, $2,900. 256-772-0430

Wanted

★ Window or window sash to fit 33" wide, 28" high or smaller rough opening. 971-1414
★ Acoustic guitar, 828-5879
★ Children's books, first through sixth grade. 828-7038
★ To buy old German cookie boards. 882-1097

Lost

★ Chevy Suburban key with remote and house key. 883-1693

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